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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/752,434	01/06/2004	Yeshwanth Narendar	S1432-700819	3742
37462	7590	01/11/2007	EXAMINER	
LOWRIE, LANDO & ANASTASI			GROUP, KARL E	
RIVERFRONT OFFICE				
ONE MAIN STREET, ELEVENTH FLOOR			ART UNIT	PAPER NUMBER
CAMBRIDGE, MA 02142				1755
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE		DELIVERY MODE
3 MONTHS		01/11/2007		PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/752,434	NARENDAR ET AL
	Examiner Karl E. Group	Art Unit 1755

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 18 December 2006.

2a) This action is FINAL.                            2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 14, 15, 23, 24 and 30-41 is/are pending in the application.

4a) Of the above claim(s) 38-41 is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 14, 15, 23, 24, 30-37 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 12/18/06

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_.

***Election/Restrictions***

1. Newly submitted claims 38-41 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: The newly presented claims are considered properly restricted under a combination/subcombination relationship

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 38-41 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

2. This application contains claims drawn to an invention nonelected with traverse. A complete reply to the final rejection must include cancellation of nonelected species or other appropriate action (37 CFR 1.144) See MPEP § 821.01. Applicants elected the specie of SiC.

***Claim Rejections - 35 USC § 102***

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. Claims 14,15,23,24,30-37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Japanese document 10-228974 and 07-328360, each taken alone, for reasons of record.

Applicants' argument that Japanese document '974 fails to teach recrystallized material selected from silicon carbide, silicon nitride and aluminum oxide is not

persuasive. Firstly silicon nitride and aluminum oxide are drawn to non-elected species. Secondly the Japanese document clearly teaches recrystallized silicon carbide. It is further argued that the Japanese document fails to teach an “impurity that is one of iron, copper, nickel, chromium and calcium”. The interpretation of this claim limitation is that only one of these impurities need to be in an amount less than 1ppm in view of the Markush terminology “one of”. Also claim 33 does not limit the amount of impurity present. Even if iron is present in the equipment used to manufacture the products of the Japanese document the claims are not considered to limit the iron content to less than 1 ppm. If only one of Cu, Ni, Cr or Ca is less than 1 ppm the limitation of the claim is considered met. Applicants have not given any reasoning why it would be expected why one of these elements would be present in an amount greater than 1 ppm.

5. Claims 33-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Holmes et al (5,770,324), for reasons of record.

Claims 33-37 do not require interconnected pores. A network of pores does not mean the pores are connected. The examples show impurity amounts within the scope of the dependent claims.

6. Claims 14,15,23,24,30-37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Dubots et al (6,162,543), for reasons of record.

Firstly it is pointed out that only claims 30-32 require interconnected pores. As to Dubots et al failing to teach connected pores, through out the specification the porosity is defined as “open”, see abstract, claim 1. Open porosity has to be connected pores.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Karl E Group  
Primary Examiner  
Art Unit 1755

Keg  
1-3-06